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Response to Final Action Dated December 14, 2004

Amendments to the Claims

1. (currently amended) A method in a computer system for improving data transmission of markup language documents, wherein the markup language documents include markup tags and information characters, the method comprising:

converting markup tags in the document to tokens which are adapted to be readily recognizable by ~~may be directly used by~~ a compression algorithm without the transmission of dictionary information;

creating a token stream;

compressing the token stream using said compression algorithm;

decompressing the token stream using the compression algorithm; and

recreating the markup tags from the token stream.

2. (original) The method as recited in claim 1, wherein converting markup tags to tokens includes:

parsing the document to recognize the tags;

accessing a table of tags, wherein the table lists the tags and their associated tokens; and

replacing the tags with the tokens.

3. (original) The method as recited in claim 2, wherein parsing is performed by a recursive-descent parser.

4. (original) The method as recited in claim 2, wherein the table of tags is extensible.

5. (original) The method as recited in claim 1, wherein the markup tags are hypertext markup language tags.

6. (original) The method as recited in claim 1, wherein the markup tags are extensible markup language tags.

7. (original) The method as recited in claim 1, wherein the token stream includes the converted markup tags.

8. (original) The method as recited in claim 1, wherein the token stream includes one or more information characters.

9. (original) The method as recited in claim 8, wherein each of the information characters are tokens.

10. (original) The method as recited in claim 1, wherein compressing the token stream includes encoding the token stream using Huffman coding.

11. (original) The method as recited in claim 1, wherein compressing the token stream includes encoding the token stream using arithmetic coding.

12. (original) The method as recited in claim 1, wherein compressing the token stream includes encoding the token stream using LZ77 coding.

13. (original) The method as recited in claim 1, wherein compressing the token stream includes encoding the token stream using LZ78 coding.

14. (original) The method as recited in claim 1, wherein compressing the token stream includes encoding the token stream using LZW coding.

15. (original) The method as recited in claim 1, wherein converting the markup tags, creating a token stream and compressing the token stream are performed on a computer sending the markup language document.

16. (original) The method as recited in claim 1, wherein converting the markup tags, creating a token stream and compressing the token stream are performed on a web browser.

17. (original) The method as recited in claim 1, wherein converting the markup tags, creating a token stream and compressing the token stream are performed on a transmission network.

18. (original) The method as recited in claim 1, wherein decompressing the token stream and recreating the markup tags are performed on a computer receiving the markup language document.

19. (original) The method as recited in claim 1, wherein decompressing the token stream and recreating the markup tags are performed on a web browser.

20. (original) The method as recited in claim 1, wherein decompressing the token stream and recreating the markup tags are performed on a transmission network.

21. (currently amended) A method in a computer system for improving data transmission of markup language documents, the method comprising:

converting markup tags into tokens which are adapted to be readily recognizable
~~may be directly used by a compression algorithm without the transmission of dictionary information;~~ and

creating a token stream using said compression algorithm.

22. (original) The method as recited in claim 21, wherein converting markup tags to tokens includes:

parsing the document to recognize the tags;
accessing a table of tags, wherein the table lists the tags and their associated tokens; and
replacing the tags with the tokens.

23. (original) The method as recited in claim 22, wherein parsing is performed by a recursive-descent parser.

24. (original) The method as recited in claim 22, wherein the table of tags is extensible.

25. (original) The method as recited in claim 21, wherein the markup tags are hypertext markup language tags.

26. (original) The method as recited in claim 21, wherein the markup tags are extensible markup language tags.

27. (original) The method as recited in claim 21, wherein the token stream includes the converted markup tags.

28. (original) The method as recited in claim 21, wherein the token stream includes one or more information characters.

29. (original) The method as recited in claim 28, wherein each of the information characters are tokens.

30. (original) The method as recited in claim 21 further comprising compressing the token stream.

31. (original) The method as recited in claim 30, wherein compressing the token stream includes encoding the token stream using Huffman coding.

32. (original) The method as recited in claim 30, wherein compressing the token stream includes encoding the token stream using arithmetic coding.

33. (original) The method as recited in claim 30, wherein compressing the token stream includes encoding the token stream using LZ77 coding.

34. (original) The method as recited in claim 30, wherein compressing the token stream includes encoding the token stream using LZ78 coding.

35. (original) The method as recited in claim 30, wherein compressing the token stream includes encoding the token stream using LZW coding.

36. (original) The method as recited in claim 30, wherein converting the markup tags, creating a token stream and compressing the token stream are performed on a computer sending the markup language document.

37. (original) The method as recited in claim 30, wherein converting the markup tags, creating a token stream and compressing the token stream are performed on a web browser.

38. (original) The method as recited in claim 30, wherein converting the markup tags, creating a token stream and compressing the token stream are performed on a transmission network.

39. (original) The method as recited in claim 30 further comprising decompressing the token stream.

40. (original) The method as recited in claim 39, wherein decompressing the token stream is performed on a computer receiving the markup language document.

41. (original) The method as recited in claim 39, wherein decompressing the token stream is performed on a web browser.

42. (original) The method as recited in claim 39, wherein decompressing the token stream is performed on a transmission network.